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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/071,494	02/06/2002	Taeg-Hyun Kang	40013.001	1924
27966 7	590 . 05/01/2003			
KENNETH E. HORTON RADER, FISHMAN & GRAUER PLLC RIVERPARK CORPORATE CENTER ONE			EXAMINER	
			MANDALA, VICTOR A	
10653 SOUTH RIVERFRONT PARKWAY, SUITE 150 SOUTH JORDAN, UT 84095		ART UNIT	PAPER NUMBER	
300 IH 30KD	11, 01 04075		2826	

DATE MAILED: 05/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/071,494	KANG ET AL.
		Examiner	Art Unit
		Victor A Mandala Jr.	2826
Period for	- The MAILING DATE of this communication app r Reply DRTENED STATUTORY PERIOD FOR REPLY		
THE N - Extens after S - If the p - If NO - Failure - Any re	MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, sply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 06 M	<u>March 2003</u> .	
2a)⊠	•	is action is non-final.	
3)□	Since this application is in condition for allowa	ance except for formal matters, p	rosecution as to the merits is
·	closed in accordance with the practice under on of Claims	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.
4) 🛛	Claim(s) 1-41 is/are pending in the application).	
4	4a) Of the above claim(s) <u>11-18 and 30-39</u> is/a	re withdrawn from consideration.	
5)□	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-10,19-29,40 and 41</u> is/are rejected.		
7) 🗌	Claim(s) is/are objected to.		
8) 🗌	Claim(s) are subject to restriction and/o	r election requirement.	
Application	on Papers		
,	The specification is objected to by the Examine		
10)🛛 🗆	The drawing(s) filed on <u>06 February 2002</u> is/are		
	Applicant may not request that any objection to th		
11) 🔲 🧵	The proposed drawing correction filed on		oved by the Examiner.
	If approved, corrected drawings are required in re		
<i>,</i> —	The oath or declaration is objected to by the Ex	aminer.	
_	ınder 35 U.S.C. §§ 119 and 120		
	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).
a)[☐ All b)☐ Some * c)⊠ None of:		
	1. Certified copies of the priority document		
	2. Certified copies of the priority document		
* 0	3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).	
	Acknowledgment is made of a claim for domest		
) \square The translation of the foreign language pr		
a 15)□ /	Acknowledgment is made of a claim for domes	tic priority under 35-U.S.C. §§ 12	0 and/or 121.
Attachmen	ν_{\parallel}	VATLAN J. FLYNN Interview Summa	(DTO 440) Danier No.
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-448) mation Disclosure Statement(s) (PTO-1449) Paper Nots)	SORY PATENTS EDONNALED of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)
U.S. Patent and T	rademark Office	action Summary	Part of Paper No. 8

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DETAILED ACTION

Response to Amendment

- 1. The Applicant continues to argue the election restriction requirement, in Paper No. 6, that the examiner did not explain why the arguments, in Paper No. 3, where found non-persuasive. The examiner has replied in Paper No. 4 that the Applicant's arguments where not found persuasive, in which the examiner is asserting that there is a burden to the examiner to search the method claims and there is a distinction between the two claimed inventions, which are noted by the independent classifications. The Applicant has also agreed with the examiner that the distinct independency of the inventions in Paper No. 3. The Election of the Device claims 1-10, 19-29, 40 and 41 is restated from Paper No. 4, to be final.
- 2. The Applicant has argued in Paper No. 6 that the 35 U.S.C. 112 1st paragraph rejection, in Paper No. 4, should be withdrawn in view of the stated arguments. The examiner has considered the Applicant's arguments, but finds them to be non-persuasive because as stated by the Applicant that the only disclosed statement in the disclosure that recites a transistor without a gate insulator is Paragraph 33, "a **thin** gate insulator does not exist in the field transistor". The examiner wants to distinctly point out to the Applicant what the cited notation means, such as the field effect transistor does not have a **thin** gate insulator, but there is no indication that a gate insulator does not exist, such that a **thick** gate insulator would be sufficient, in which Figure 2 **does** show. The 35 U.S.C. 112 1st paragraph rejection on claims 40 and 41 will stand as stated in Paper No. 4.

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- 3. The Applicant has argued in Paper No. 6 that the objection to the drawings should be withdrawn in view of the stated arguments. The examiner has considered the Applicant's arguments, but finds them to be non-persuasive. The Applicant points out that the FOX layer is not a gate insulator, but it is well known to one having ordinary skill in the art that a field oxide layer is an insulator. It is also known in the art that an insulating layer directly above a channel, between a source and drain, and directly below a gate is a gate insulator. The Applicant's drawing do not show a field transistor that does not have a gate insulator, thus the objection to the drawings as stated in Paper No. 4 will stand.
- 4. In light of Amendment A, in Paper No. 6, claims 1-10 & 19-29 will be further examined.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-10, 19-29, 40 and 41 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The invention shows a thick gate insulator in Figure 2 #170 and the disclosure discloses a gate insulator, but claims 1-10, 19-29, 40 and 41 are teaching the invention without a gate insulator. Further detail of the examiner's stance is noted in #2 and #3, Response to Amendments, above.

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Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor A Mandala Jr. whose telephone number is (703) 308-6560. The examiner can normally be reached on Monday through Thursday from 8am till 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

VAMJ

April 22, 2003